

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	4323	haas.IN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:02
L4	2	3 and "time-frequency"	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:02
L5	0	3 and "time-frequency" and "multiple carrier"	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:03
L6	5	3 and "multiple carrier"	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:04
L7	18	3 and ralf	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:05
L8	803	OFDM same multicarrier same modulation	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:06
L9	789	8 and orthogonal	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:08
L10	1	9 and hermite	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:07
L11	11	8 and (Gaussian adj pulse)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:08
L12	4	("5790516"   "6654431").PN. OR ("6934246").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:10
L13	5	("20030002434"   "20030157905"   "5953311"   "6278686"   "6584068").PN. OR ("7103106").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:15
L14	4	("5790516"   "6278686").PN. OR ("6584068").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 13:09
L15	112	(time near3 frequency) same intersymbol and OFDM	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 13:56
L16	1	"6470055".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 16:05

## EAST Search History

L17	29508	symbol near3 signals	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 16:06
L18	4041	symbol adj signals	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 16:06
L19	877	18 and OFDM	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 16:07
L20	238	19 and (I near3 Q)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 16:07
S1	665	370/203.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/15 14:35
S2	568	370/206.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/07 16:29
S3	0	"375"/\$.ccls. and "quadraure amplitude modulation"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/07 16:31
S4	11348	"quadrature amplitude modulation"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/07 16:30
S5	5047	"375"/\$.ccls. and "quadrature amplitude modulation"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/07 16:31

## EAST Search History

S6	36	S5 and overlaying	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/07 16:36
S7	0	10/765990.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/09 18:33
S8	206	S5 and (overlapping near3 (signals frequency))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/07, 16:46
S9	0	"orthogonal signal spectrum overlay"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/07 16:46
S10	0	orthogonal adj signal adj spectrum adj overlay	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/07 16:47
S11	0	signal adj spectrum adj overlay	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/07 16:47
S12	61	spectrum adj overlay	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/07 16:50

## EAST Search History

S13	2	"Weber-Hermite"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/07 16:50
S14	50	("3108249"   "3614719"   "3720884"   "4008469"   "4218678"   "4995088"   "5095312"   "5121125"   "5146229"   "5159343"   "5175552"   "5177486"   "5223838"   "5247302").PN. OR ("5486833").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/07 17:00
S15	27586	"cross correlation" OFDM	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/07 17:34
S16	199	"cross correlation" same OFDM	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/07 17:31
S17	65804	symbol same position	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/07 17:34
S18	17682	S17 and I and Q	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/07 17:34
S19	16055	"cross correlation"	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/07 17:35
S20	612	S18 and S19	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/07 17:41
S21	162	hermite adj polynomials	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/16 12:01
S22	5	("3384715").URPN.	USPAT	OR	ON	2008/01/07 17:42
S23	30	("3377625"   "3384715"   "3882485"   "4327439").PN. OR ("4403331").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/07 17:43

## EAST Search History

S24	35	("3944926"   "4103234"   "4339724"   "4350879"   "4403331"   "4517679"   "4530088"   "4567602"   "4644565"   "4720839"   "4730344"   "5327455"   "5341396"   "5365547"   "5491457"   "5719899"   "5729570"   "5732114"   "5784402"   "5790588"   "6198777"   "6445749"   "6470055").PN. OR ("6757334"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/07 17:46
S25	35	("3204034"   "3204035"   "3517131"   "3622885"   "3697682"   "4267591"   "4338579"   "4384357"   "4406009").PN. OR ("4730344"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/07 18:15
S26	4870	(spectral spectrum) adj (efficien\$2)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/09 18:46
S27	1586	S26 and I and Q	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/07 18:30
S28	1406	S27 and ( bandwidth capacity)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/07 18:30
S29	27	("3847732"   "4135057"   "4204163"   "4680777"   "4730344"   "4967164"   "5105446"   "5107520"   "5230008").PN. OR ("5583892"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/07 18:54
S30	78	("5592490"   "5642353"   "5815488"   "5828658"   "5933421"   "6058105"   "6064662"   "6067290"   "6097771"   "6108565"   "6144711"   "6175550").PN. OR ("6351499").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/07 19:39
S31	1362	("non-linear" ) same orthogonal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/09 19:47

## EAST Search History

S32	70	S31 and QAM	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/09 18:35
S33	46	("3761696"   "3881099"   "4320513"   "4325129"   "4348597"   "4460992"   "4493046"   "4527275"   "4606039"   "4649419"   "4707839"   "4730340"   "4791594"   "4809295"   "4852023"   "4860353"   "4872200"   "4890252"   "4965881"   "4984247"   "5008938"   "5016206"   "5029180"   "5031173"   "5046036"   "5062121"   "5063571"   "5079733"   "5084900"   "5090023"   "5099493"   "5111478"   "5157689"   "5452328").PN. OR ("5815526").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/09 18:36
S34	4876	(spectral spectrum) adj (efficien\$2)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/09 18:46
S35	23	S34 and S31	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/09 18:46
S36	22	("3644831"   "3815029"   "4313205"   "4324001"   "4338579"   "4613976"   "5095539"   "5208829"   "5309479"   "5467373"   "5610940"   "5629961"   "5633893"   "5774788"   "5790601"   "5812604"   "5815531"   "6091789").PN. OR ("6301310").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/09 18:47
S37	3	eigen adj signal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/09 19:34

## EAST Search History

S38	23	S34 and S31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/09 19:45
S39	147	S31 and envelope	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/09 19:48
S40	41	("4710812"   "5010574"   "5115240"   "5151941"   "5157760"   "5272529"   "5274741"   "5294925"   "5299240"   "5361323"   "5375189"   "5384891"   "5414795"   "5440345"   "5471558"   "5473727"   "5594833"   "5630012"   "5634082"   "5642111"   "5664052"   "5737718").PN. OR ("5878388").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/09 19:50
S41	4368	effective adj bandwidth	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 12:22
S42	4887	(spectral spectrum) adj (efficien\$2)	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 12:22
S43	128	S42 and S41	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 12:30
S44	14	(overlay near signal) and S42	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 12:48

## EAST Search History

S45	3	"20040166800"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 12:44
S46	4	("20020168973"   "20040192330"   "20050020219"   "20050032472").PN. OR ("7016644").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 12:45
S47	264	overlay same "non-linear"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 12:51
S48	2	S47 and channel and QAM	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 12:50
S49	1510	overlay same ( time and frequency)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 12:58
S50	8	S41 and S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 13:00
S51	1	09/201376.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 13:04



## EAST Search History

S52	2607	S41 and channel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 13:21
S53	7	S52 and S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 13:23
S54	870	"time bandwidth product"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 14:40
S55	9	S49 and S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 13:27
S56	1317	bandwidth-limited	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 14:02
S57	38	S42 and S56	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 13:28
S58	3933	time adj frequency adj domain	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 13:59

## EAST Search History

S59	153	S54 and S58	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 13:47
S60	127	S59 and channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 13:48
S61	3	S42 and S60	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 13:48
S62	7	("4188578"   "5610907"   "6160802"   "6345066"   "6381053"   "6560450"   "6636567").PN. OR ("6873644"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 13:51
S63	17	("4527275"   "4561089"   "4707839"   "5029184"   "5103459"   "5132986"   "5155741"   "5204877"   "5291515"   "5313457"   "5450395"   "5469469"   "5471509"   "5557637").PN. OR ("6101213").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 13:55
S64	179	"OSSO"	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 13:58
S65	16	S56 and S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 14:02
S66	35	("4829529"   "4913520"   "5303314"   "5499134"   "5530582"   "5583959"   "5880877"   "Re35215").PN. OR ("6014249").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 14:06

## EAST Search History

S67	16	S41 and S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 14:41
S68	3	"6470055".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 14:49
S69	13190	non-linear near3 function	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 14:54
S70	2516	bandwidth and S69	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 14:49
S71	636	S70 and symbol	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 14:50
S72	23	S71 and orthogonal and overlay	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 14:50
S73	73	S69 and S42	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/10 14:54

## EAST Search History

S74	14	("4319359"   "4600891"   "5070254"   "5105446"   "5313494"   "5572516"   "5701294"   "5712868"   "5748678"   "5790516"   "5808511"   "5909460"   "6072364"   "7054658").PN. OR ("7274747").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 15:13
S75	483	370/206.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 15:14
S76	9	S41 and S75	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 15:42
S77	38871	amplitude adj modulation	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 15:43
S78	5273	S77 and "non-linear"	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 15:43
S79	20252	S78 QAM	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 15:43
S80	1244	S78 and QAM	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 15:43
S81	206	S42 and S80	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 15:44
S82	31	("4646325"   "5253271"   "5343499"   "5363408"   "5381449"   "5425050").PN. OR ("5640423").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 15:46
S83	9	("4730344"   "5583892"   "5640423"   "6055266").PN. OR ("6608874").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 16:39
S84	649	multiplex same QAM	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 16:47
S85	55	S84 and non-linear	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/10 16:47

## EAST Search History

S86	1	non-linear adj ( amplifier amplified expand) same signal same symbol	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/15 14:37
S87	21	non-linear adj ( amplifier amplified expand) same signal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/15 14:39
S88	25	non-linear adj ( amplifier amplified expand)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/15 14:39
S89	0	(time adj frequency) same (spatial adj efficiency)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/15 14:41
S90	65	(time adj frequency) same ((spectral spedtrum) adj efficiency)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/15 16:43
S91	74	bandwidth-limited near3 pulses	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/15 16:44